



1998 Toxics Release Inventory

MONTANA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	46,531,157	76,229,899	122,761,056
Air Emissions	4,190,212	1,119,321	5,309,533
Surface Water Discharges	94,176	10	94,186
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	2,298	0	2,298
Other On-site Land Releases	42,244,471	75,110,568	117,355,039
Off-site Releases (Transfers Off-site to Disposal)*	600,495	159,400	759,895
Total On- and Off-site Releases	47,131,652	76,389,299	123,520,951
Recycled On-site	33,461,138	0	33,461,138
Recycled Off-site	161,043	39,000	200,043
Energy Recovery On-site	2,736,683	0	2,736,683
Energy Recovery Off-site	54,685	0	54,685
Treated On-site	8,727,209	4,519,667	13,246,876
Treated Off-site**	29,422	45,566	74,988
Quantity Released On- and Off-site***	51,408,605	76,780,785	128,189,390
Total Production-related Waste Managed	96,578,785	81,385,018	177,963,803
Total Non-production-related Waste Managed	74,742	13	74,755

Transfers Off-site for Further Waste Management/Disposal

Recycling	46,501	0	46,501
Energy Recovery	56,503	1,000	57,503
Treatment	14,995	45,338	60,333
Publicly Owned Treatment Works (POTWs)	16,101	0	16,101
Metals and Metal Compounds*	255	0	255
Non-metal TRI Chemicals**	15,846	0	15,846
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	4,845,970	159,400	5,005,370
Total Transfers Off-site for Further Waste Management/Disposal	4,980,070	205,738	5,185,808

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

****Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

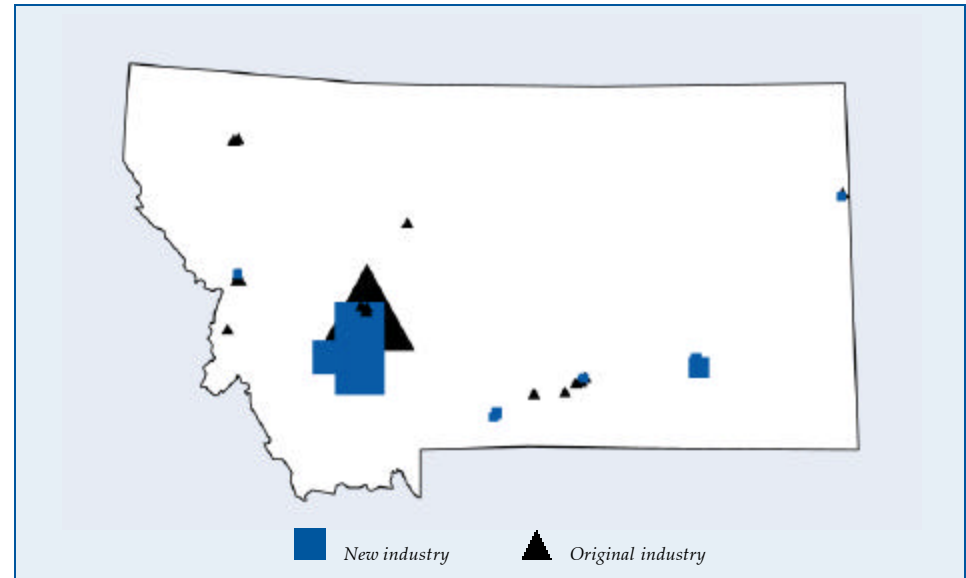
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
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The largest marker in the state map represents the largest facility for on-site releases in the state of Montana. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	880,453
Square Miles	145,556
Total Facilities	42
Total Forms	254
Form As	25

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	19	11	18
Pounds	47,131,652	76,389,299	123,520,951
National Rank for Total On-site Releases**			
Rank	19	9	17
Pounds	46,531,157	76,229,899	122,761,056
National Rank for Total Releases within State***			
Rank	19	11	18
Pounds	46,539,752	76,389,299	122,929,051
National Rank for Production-related Waste Managed			
Rank	36	19	36
Pounds	96,578,785	81,385,018	177,963,803

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	22,905	53	0	32,948,399	1,207,590	34,178,947	0	5	1,207,585
—	Lead compounds	33,708	19	0	4,086,785	2,085,485	6,205,997	0	0	2,085,485
—	Manganese compounds	1,004	387	0	2,631,464	21,752	2,654,607	0	0	21,752
67-56-1	Methanol	1,969,578	74,000	0	140	0	2,043,718	0	0	0
—	Copper compounds	14,188	2	0	1,734,359	53,632	1,802,181	0	250	53,382
—	Cadmium compounds	6,162	1	0	25,262	1,327,630	1,359,055	0	0	1,327,630
7664-41-7	Ammonia	565,466	12,160	0	11,705	0	589,331	0	0	0
—	Arsenic compounds	13,654	61	0	434,598	120,995	569,308	0	0	120,995
50-00-0	Formaldehyde	377,792	660	0	0	0	378,452	0	0	0
—	Antimony compounds	556	1,102	0	299,030	11,865	312,553	0	0	11,865

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Zinc compounds	4,340	0	0	20,605,050	0	20,609,390	0	0	0
7440-50-8	Copper	1,502	0	0	14,106,806	0	14,108,308	0	0	0
—	Copper compounds	2,485	0	0	11,526,200	0	11,528,685	0	0	0
7440-47-3	Chromium	734	0	0	9,425,900	0	9,426,634	0	0	0
—	Lead compounds	1,760	0	0	8,455,000	0	8,456,760	0	0	0
—	Barium compounds	77,750	5	0	3,800,000	0	3,877,755	0	0	0
7440-02-0	Nickel	986	0	0	2,689,177	0	2,690,163	0	0	0
—	Manganese compounds	7,200	5	0	1,800,000	0	1,807,205	0	0	0
—	Arsenic compounds	260	0	0	731,000	0	731,260	0	0	0
7647-01-0	Hydrochloric acid	592,326	0	0	0	0	592,326	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)[†]

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc., East Helena, Lewis and Clark	105,525	1,612	0	0	0	42,082,959	42,190,096	0	4,816,020
Smurfit-Stone Container Corp., Missoula, Missoula	1,993,585	79,770	0	0	0	155	2,073,510	0	0
Plum Creek Mfg. L.P. MDF Facility, Columbia Falls, Flathead	666,150	0	0	0	0	0	666,150	0	0
Columbia Falls Aluminum Co. L.L.C., Columbia Falls, Flathead	309,178	0	0	0	0	1,320	310,498	0	0
Holly Sugar Corp. Sidney Factory, Sidney, Richland	201,600	0	0	0	0	8,400	210,000	0	0
Louisiana-Pacific Corp., Missoula, Missoula	194,329	0	0	0	0	0	194,329	0	0
Exxon Billings Refy., Billings, Yellowstone	172,118	9,262	0	0	0	440	181,820	0	14,128
Cenex Harvest States Co-Op. Laurel Refy., Laurel, Yellowstone	108,820	285	0	0	0	45	109,150	40	0
Conoco Inc. Billings Refy., Billings, Yellowstone	102,222	447	0	0	0	0	102,669	0	0
Montana Refining Co., Great Falls, Cascade	87,444	0	0	0	0	0	87,444	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

[†]One facility reported a total of 168,440 pounds of on-site releases. The facility has since revised this quantity to 39,900 pounds. This removes the facility from the top ranked facilities in the state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Montana Tunnels Mining Inc., Jefferson City, Jefferson	18,175	0	0	0	0	25,937,000	25,955,175	0	0
Golden Sunlight Mines Inc., Whitehall, Jefferson	122,909	0	0	0	0	25,668,000	25,790,909	0	0
Montana Resources, Butte, Silver Bow	755	0	0	0	0	15,629,750	15,630,505	0	0
Montana Power Co. Colstrip Project Div., Colstrip, Rosebud	307,865	0	0	0	0	6,579,350	6,887,215	0	0
SMC Nye Mine Site, Nye, Stillwater	1,333	0	0	0	0	1,017,527	1,018,860	0	0
Rosebud Power Plant, Colstrip, Rosebud	597,981	0	0	0	0	211,361	809,342	0	0
Lewis & Clark Station, Sidney, Richland	5,959	0	0	0	0	39,400	45,359	159,400	0
Montana Power Co. Corette Thermal Plant, Billings, Yellowstone	38,850	10	0	0	0	0	38,860	0	0
Stillwater Mining Co., East Boulder Project, Big Timber, Sweet Grass	1	0	0	0	0	28,180	28,181	0	0
Conoco Helena Product Terminal, Helena, Lewis and Clark	13,958	0	0	0	0	0	13,958	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)[†]

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
ASARCO Inc., East Helena, Lewis and Clark	26,485,765	0	0	0	0	0	46,932,026	73,417,791	74,054
Smurfit-Stone Container Corp., Missoula, Missoula	0	0	2,373,600	0	4,445,580	158	2,119,858	8,939,196	0
Plum Creek Mfg. L.P. MDF Facility, Columbia Falls, Flathead	0	0	0	0	0	0	664,900	664,900	0
Columbia Falls Aluminum Co. L.L.C., Columbia Falls, Flathead	6,143,744	0	0	0	0	214	310,498	6,454,456	0
Holly Sugar Corp. Sidney Factory, Sidney, Richland	0	0	0	0	0	0	210,000	210,000	0
Exxon Billings Refy., Billings, Yellowstone	0	0	160,000	0	2,580,176	512	196,805	2,937,493	169
Louisiana-Pacific Corp., Missoula, Missoula	0	0	0	6,974	0	0	194,923	201,897	0
Cenex Harvest States Co-Op. Laurel Refy., Laurel, Yellowstone	48,931	0	0	687	1,616,463	737	108,507	1,775,325	402
Conoco Inc. Billings Refy., Billings, Yellowstone	0	293	0	24	81,690	0	100,610	182,617	0
Montana Refining Co., Great Falls, Cascade	190,500	0	0	0	0	14,394	88,279	293,173	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

[†]One facility reported a total of 417,816 pounds of production-related waste. The facility has since revised this quantity to 71,400 pounds. This removes the facility from the top ranked facilities in the state.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Montana Tunnels Mining Inc., Jefferson City, Jefferson	0	39,000	0	0	0	0	25,951,000	25,990,000	8
Golden Sunlight Mines Inc., Whitehall, Jefferson	0	0	0	0	0	0	25,721,000	25,721,000	5
Montana Resources, Butte, Silver Bow	0	0	0	0	0	0	17,136,200	17,136,200	0
Montana Power Co. Colstrip Project Div., Colstrip, Rosebud	0	0	0	0	3,120,000	0	6,900,720	10,020,720	0
Rosebud Power Plant, Colstrip, Rosebud	0	0	0	0	32,960	0	809,342	842,302	0
Lewis & Clark Station, Sidney, Richland	0	0	0	0	235,000	0	199,900	434,900	0
Montana Power Co. Corette Thermal Plant, Billings, Yellowstone	0	0	0	0	86,000	0	38,630	124,630	0
Conoco Helena Product Terminal, Helena, Lewis and Clark	0	0	0	0	0	14,576	12,631	27,207	0
Conoco Missoula Product Terminal, Missoula, Missoula	0	0	0	0	0	30,990	8,121	39,111	0
HCI Dyce Chemical Inc., Billings, Yellowstone	0	0	0	0	0	0	1,907	1,907	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.